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(54) **MODULAR FRAME LOAD HANDLER WITH  
TRANSLATABLE BOOM CARRIAGE**

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(57) **ABSTRACT**

A load handler with a modular frame and the manufacture  
and assembly of the frame and loader and components that  
may be used therein. A frame is provided that has a low pivot  
point for a boom. The frame has left and right side rails, and  
front and rear cross rails, each having a closed cross-section  
construction. The side rails and cross rails are modular and  
the cross rails of a selected size are configured to fit a  
plurality of sizes of side rails, such that the same size cross  
rails may be used to construct a variety sizes and capabilities  
of load handling vehicles in a flow type manufacturing  
process. A structural beam is provided having plates inter-  
connected along their lengths to form the beam having a  
box-shaped closed cross-section having a perimeter gener-  
ally along the widths of the plates and forming a beam cavity  
within the perimeter.

**12 Claims, 15 Drawing Sheets**

